

Supplementary Information

Simultaneous Coupling of Metal Removal and Visual Detection by Nature-inspired Polyphenol-amine Surface Chemistry

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Table S1. Parameters of pseudo-second order kinetics model

Table S2. Parameters of pseudo-first order kinetics model

Table S3. Parameters of Langmuir isotherm model

Table S4. Parameters of Freundlich isotherm model

Supporting Tables

R ²	m	b	K ₂ (g/mg)	q _{e,cal} (mg/g)	q _{e,exp} (mg/g)
0.99929	1.92631	0.6415	5.784365107	0.519127243	0.551508211

Table S1. Parameters of pseudo-second order kinetics model.

R ²	m	b	K ₁ (1/min)	q _{e,cal} (mg/g)	q _{e,exp} (mg/g)
0.82033	-0.09836	-1.86136	0.09836	0.155461059	0.551508211

Table S2. Parameters of pseudo-first order kinetics model.

R ²	m	b	K _L (L/mg)	q _{max} (mg/g)
0.99843	6.53776	-30.17798	-0.21664008	0.152957588

Table S3. Parameters of Langmuir isotherm model

R ²	m	b	K _f (L/mg)	1/n
0.99914	-2.15987	3.39942	29.94672591	-0.46299082

Table S4. Parameters of Freundlich isotherm model